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=> d his

     (FILE 'HOME' ENTERED AT 17:04:24 ON 12 DEC 2002)

     FILE 'REGISTRY' ENTERED AT 17:04:29 ON 12 DEC 2002
L1             STRUCTURE UPLOADED
L2               0 S L1 SSS SAM
L3             902 S L1 SSS FUL

     FILE 'CAPLUS' ENTERED AT 17:06:45 ON 12 DEC 2002
L4             224 S L3
L5          131645 S HERBICID? OR AGRIC? OR AGRONOM?
L6              11 S L4 AND L5

     FILE 'CAOLD' ENTERED AT 17:10:02 ON 12 DEC 2002

=> s l3
L7               0 L3

=> log y
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                  ENTRY    SESSION
FULL ESTIMATED COST                                0.38     197.15

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                  ENTRY    SESSION
CA SUBSCRIBER PRICE                                0.00      -6.82

STN INTERNATIONAL LOGOFF AT 17:10:32 ON 12 DEC 2002
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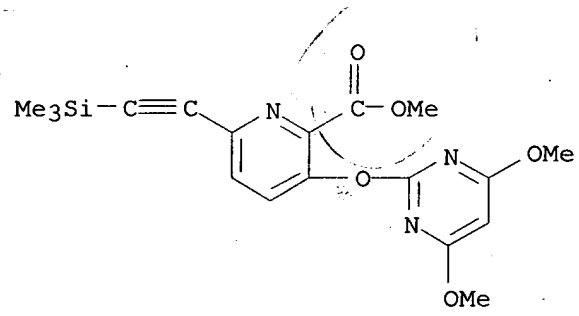
L6 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1995:665000 CAPLUS
DN 123:55906
TI Picolinic acid derivatives and their **herbicidal** compositions
IN Takabe, Fumiaki; Saito, Yoshihiro; Tamaru, Masatoshi; Tachikawa, Shigehiko; Hanai, Ryo
PA Kumiai Chemical Industry Co., Ltd., Japan; Ihara Chemical Industry Co., Ltd.
SO U.S., 19 pp. Cont.-in-part of U.S. Ser. No. 842,163, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5391537	A	19950221	US 1992-960844	19921014
	US 5403816	A	19950404	US 1993-48516	19930420
PRAI	JP 1990-288180	A	19901025		
	US 1992-842163	B2	19920331		
	JP 1992-129376	A	19920423		
	US 1992-960844	A2	19921014		

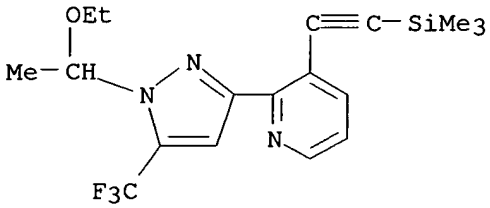
OS MARPAT 123:55906
AB The present invention is to provide a novel picolinic acid deriv. having the formula I or a salt thereof wherein R is a hydrogen atom, a (C1-C4) alkyl group, a (C2-C4) alkenyl group, a (C2-C4) alkynyl group, a benzyl group, a halogen-substituted (C1-C4) alkyl group, a cyano (C1-C4)alkyl group, a (C1-C4) alkoxy (C1-C4) alkyl group, a (C1-C4) alkoxycarbonyloxy (C1-C4) alkyl group, a (C1-C4) alkyl group, a cyclo (C4-C7) alkylcarbonyloxy (C1-C4) alkyl group, a cyclo (C3-C6) alkyl (C1-C4) alkyl group, an alkali metal atom selected from the group consisting of sodium and potassium, an alkali earth metal atom or an org. amine cation selected from the group consisting of a (C1-C4) alkylamino and a di-(C1-C4) alkylamine; R1 and R2 are the same or different, and are a (C1-C4) alkyl group, a (C1-C4) alkoxy group, a halogen atom, a halogen-substituted (C1-C4) alkoxy group or a (C1-C4) alkylsulfonyl group; X = NR3R4 wherein R3, R4 are the same or different and are, e.g., H, C1-4 alkyl, Ph; Y = O, NR5 wherein R5 is a hydrogen atom or a formyl group; and n is 0 or 1; provided that when X is a hydrogen atom, Y is a group having the formula NCHO; a method for prepg. the same; and a **herbicidal** compn. contg. the same as an active ingredient. The picolinic acid deriv. or the salt thereof of the present invention achieves an excellent **herbicidal** effect at a low dosage, and is effective for controlling the growth of various weeds in a wide range. The picolinic acid deriv. or the salt thereof of the present invention can be applied to a paddy field, a cultivated field, a non-**agricultural** land and the like as a **herbicidal** compn. Thus, e.g., reaction of Me 6-(N,N-dimethylamino)-3-hydroxypicolinate with 4,6-dimethoxy-2-methylsulfonylpyrimidine afforded Me 3-(4,6-dimethoxypyrimidin-2-yl)oxy-6-(N,N-dimethylamino)picolinate in 66% yield which showed at least 90% growth control of barnyardgrass, monochoria, and bulrush.
IT **143941-12-2P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**herbicidal** picolinic acid derivs.)
RN 143941-12-2 CAPLUS
CN 2-Pyridinecarboxylic acid, 3-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-6-[(trimethylsilyl)ethynyl]-, methyl ester (9CI) (CA INDEX NAME)



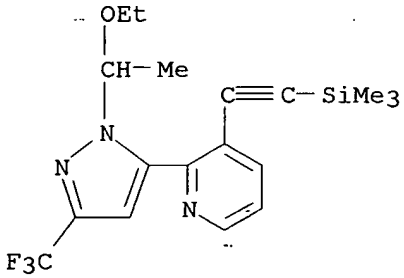
L6 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1997:294598 CAPLUS
DN 126:277476
TI Preparation of pyrazole compounds as agrohorticultural fungicides
IN Hagiwara, Kenji; Suzuki, Hiroshi; Takada, Mitsumasa; Iihama, Teruyuki; Sano, Shinsuke; Shimoda, Susumu
PA Nippon Soda Co., Ltd., Japan; Hagiwara, Kenji; Suzuki, Hiroshi; Takada, Mitsumasa; Iihama, Teruyuki; Sano, Shinsuke; Shimoda, Susumu
SO PCT Int. Appl., 85 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9711943	A1	19970403	WO 1996-JP2776	19960926
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
	AU 9670954	A1	19970417	AU 1996-70954	19960926
PRAI	JP 1995-271807		19950926		
	JP 1996-31277		19960125		
	JP 1996-157511		19960529		
	WO 1996-JP2776		19960926		

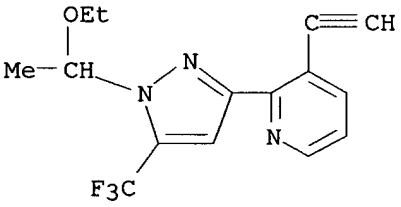
OS MARPAT 126:277476
AB The title compds. (I; R1 = C1-6 haloalkyl or alkoxycarbonyl, cyano, etc.; R2 = H, a metal atom, C1-6 alkyl or alkoxy, etc.; X = H, halo, NO2, C1-6 alkyl, etc.; Ar = 2-pyridyl, 2-pyrazyl, 2-pyrimidyl, or 2-thiazolyl group, these groups being optionally substituted with halo, C1-6 alkyl, C1-6 alkenyl, C1-6 alkynyl, C3-5 cycloalkyl, C1-6 alkoxy, C1-6 haloalkyl, etc., excluding the case wherein R1 = CF3, Ar = 2-pyridyl, X = R2 = H) and salts thereof are prepd. I, having an excellent fungicidal activity, are useful for **agriculture** and horticulture. Thus, pyridine deriv. (II) was reacted with N2H4 in AcOH to give the title compd. (III). III at 200 ppm showed > 75% fungicidal effect for Botrytis cinerea.
IT **188918-62-9P 188918-63-0P 188918-64-1P**
188918-65-2P 188919-61-1P 188920-07-2P
188920-09-4P 188920-18-5P 188920-27-6P
188920-39-0P 188920-41-4P 188920-45-8P
188920-51-6P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyrazole compds. as agrohorticultural fungicides)
RN 188918-62-9 CAPLUS
CN Pyridine, 2-[1-(1-ethoxyethyl)-5-(trifluoromethyl)-1H-pyrazol-3-yl]-3-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



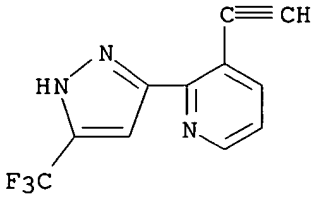
RN 188918-63-0 CAPLUS
CN Pyridine, 2-[1-(1-ethoxyethyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-3-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



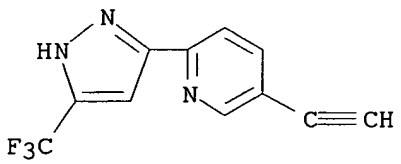
RN 188918-64-1 CAPLUS
CN Pyridine, 2-[1-(1-ethoxyethyl)-5-(trifluoromethyl)-1H-pyrazol-3-yl]-3-ethynyl- (9CI) (CA INDEX NAME)



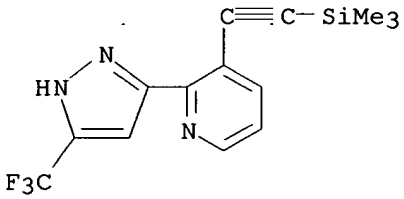
RN 188918-65-2 CAPLUS
CN Pyridine, 3-ethynyl-2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



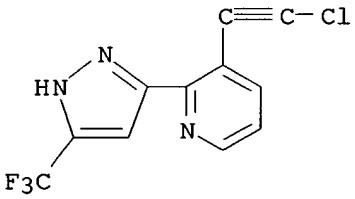
RN 188919-61-1 CAPLUS
CN Pyridine, 5-ethynyl-2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



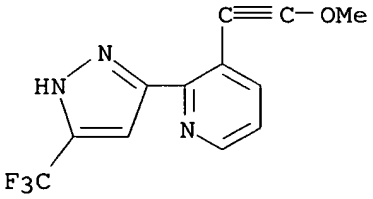
RN 188920-07-2 CAPLUS
CN Pyridine, 2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]-3-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



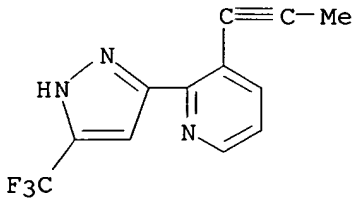
RN 188920-09-4 CAPLUS
CN Pyridine, 3-(chloroethynyl)-2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



RN 188920-18-5 CAPLUS
CN Pyridine, 3-(methoxyethynyl)-2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



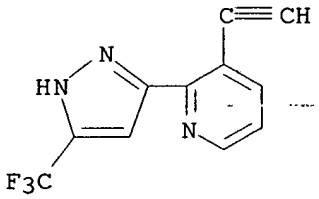
RN 188920-27-6 CAPLUS
CN Pyridine, 3-(1-propynyl)-2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



RN 188920-39-0 CAPLUS
CN Pyridine, 3-ethynyl-2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]-, monomethanesulfonate (9CI) (CA INDEX NAME)

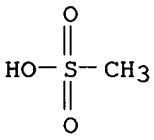
CM 1

CRN 188918-65-2
CMF C11 H6 F3 N3

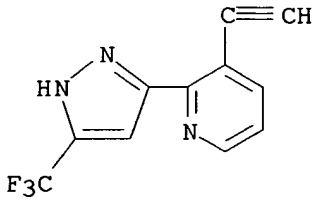


CM 2

CRN 75-75-2
CMF C H4 O3 S

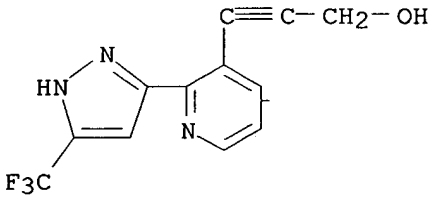


RN 188920-41-4 CAPLUS
CN Pyridine, 3-ethynyl-2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]-, monohydrochloride (9CI) (CA INDEX NAME)

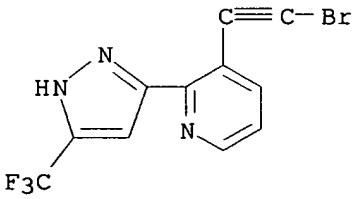


● HCl

RN 188920-45-8 CAPLUS
CN 2-Propyn-1-ol, 3-[2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]-3-pyridinyl]- (9CI) (CA INDEX NAME)



RN 188920-51-6 CAPLUS
CN Pyridine, 3-(bromoethynyl)-2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



L6 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1999:64794 CAPLUS
DN 130:95555
TI Preparation of 5-(2-pyridyl)-1,2,4-triazole compounds as **agricultural** and horticultural germicides
IN Hagiwara, Kenji; Aihara, Toshio; Tanigawa, Hisashi; Sano, Shinsuke; Shimoda, Susumu; Sano, Hiroshi
PA Nippon Soda Co., Ltd., Japan
SO PCT Int. Appl., 55 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

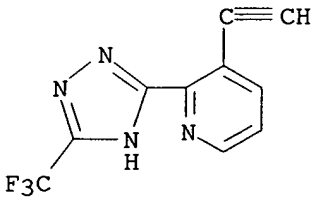
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9902518	A1	19990121	WO 1998-JP3085	19980709
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9881278	A1	19990208	AU 1998-81278	19980709
PRAI	JP 1997-202546		19970711		
	JP 1997-285851		19971017		
	WO 1998-JP3085		19980709		

OS CASREACT 130:95555; MARPAT 130:95555
AB Pyridyltriazole compds. of general formula (I) [wherein X is cyano, CHO, halogeno, C1-6 haloalkyl, thiocarbamoyl, hydroxyiminomethyl, or C1-6 alkoxyiminomethyl; Y is H, cyano, NO2, halo, C1-15 alkyl, C1-6 alkoxy, C1-6 haloalkyl, C2-6 alkenyl, C2-6 haloalkenyl, C2-6 alkynyl, di(C1-6 alkyl)amino, C3-6 cycloalkyl, C3-6 cycloalkylmethyl, C1-6 alkylthio, C1-6 alkylsulfinyl, C1-6 alkylsulfonyl, hydroxy-C1-6 alkyl, C1-6 alkoxyiminomethyl, or C1-6 alkoxymethyleneamino; and R is hydrogen, C1-6 alkylcarbonyl, C1-6 alkylcarbonyloxy-C1-4 alkyl, C1-6 alkoxy-C1-4 alkyl, C1-6 alkoxycarbonyl, C1-6 alkylsulfonyl, di(C1-6 alkyl)carbamoyl, di(C1-6 alkyl)sulfamoyl, C7-12 aralkylcarbonyloxy-C1-4 alkyl, or optionally substituted benzoyl or benzoyloxy-C1-4 alkyl; n = 1-4] are prepd. by cyclocondensation of 2-cyanopyridines (II; Y, n = same as above) with N-(C1-6 haloalkylcarbonyl)hydrazine X1CONHNH2 (X1 = C1-6 haloalkyl). They are prepd. in an industrially advantageous manner and are safely and effectively used as agrochem. fungicides. Thus, 0.28 g 28% NaOMe in MeOH was added dropwise to a mixt. of 0.71 g 5-cyclopropyl-2-cyanopyridine, 0.72 g N-(trifluoroacetyl)hydrazine hydrate, and 10 mL ethanol, refluxed for 1 h, and after distg. off the solvent, heated at 130.degree. overnight to give the title compd. (III). III at 200 ppm controlled .gtoreq.75% Venturia inaequalis in apple seedlings, Botrytis cinerea on cucumber seedlings, Plasmopara viticola on grape vine seedlings, and Erysiphe graminis f.sp. tritici on wheat seedlings.
IT **219508-41-5P 219508-45-9P 219508-69-7P**
219509-25-8P 219509-46-3P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyridyltriazole compds. by cyclocondensation of cyanopyridines with (haloalkylcarbonyl) hydrazine as

agricultural and horticultural germicides)

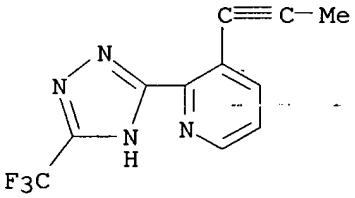
RN 219508-41-5 CAPLUS

CN Pyridine, 3-ethynyl-2-[5-(trifluoromethyl)-1H-1,2,4-triazol-3-yl]- (9CI) (CA INDEX NAME)



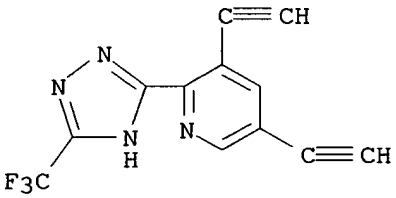
RN 219508-45-9 CAPLUS

CN Pyridine, 3-(1-propynyl)-2-[5-(trifluoromethyl)-1H-1,2,4-triazol-3-yl]- (9CI) (CA INDEX NAME)



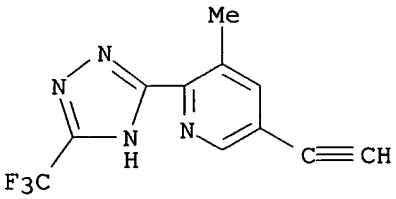
RN 219508-69-7 CAPLUS

CN Pyridine, 3,5-diethynyl-2-[5-(trifluoromethyl)-1H-1,2,4-triazol-3-yl]- (9CI) (CA INDEX NAME)



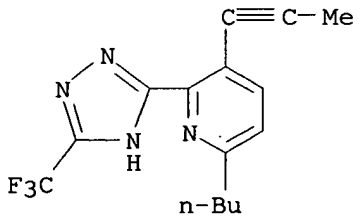
RN 219509-25-8 CAPLUS

CN Pyridine, 5-ethynyl-3-methyl-2-[5-(trifluoromethyl)-1H-1,2,4-triazol-3-yl]- (9CI) (CA INDEX NAME)



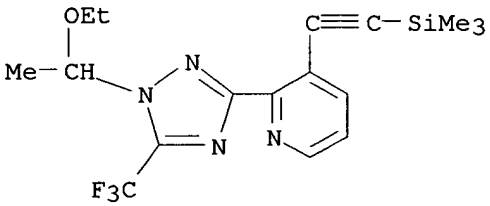
RN 219509-46-3 CAPLUS

CN Pyridine, 6-butyl-3-(1-propynyl)-2-[5-(trifluoromethyl)-1H-1,2,4-triazol-3-yl]- (9CI) (CA INDEX NAME)

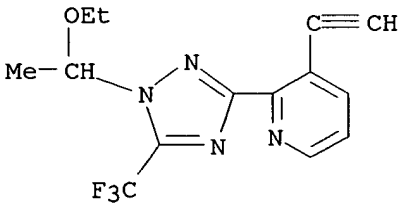


IT **219509-69-0P 219509-70-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of pyridyltriazole compds. by cyclocondensation of cyanopyridines with (haloalkylcarbonyl) hydrazine as **agricultural** and horticultural germicides)

RN 219509-69-0 CAPLUS
CN Pyridine, 2-[1-(1-ethoxyethyl)-5-(trifluoromethyl)-1H-1,2,4-triazol-3-yl]-3-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



RN 219509-70-3 CAPLUS
CN Pyridine, 2-[1-(1-ethoxyethyl)-5-(trifluoromethyl)-1H-1,2,4-triazol-3-yl]-3-ethynyl- (9CI) (CA INDEX NAME)



RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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=> d his

     (FILE 'HOME' ENTERED AT 17:16:44 ON 12 DEC 2002)

     FILE 'REGISTRY' ENTERED AT 17:16:49 ON 12 DEC 2002
L1              STRUCTURE UPLOADED
L2           26 S L1 SSS SAM
L3              STRUCTURE UPLOADED
L4            6 S L3 SSS SAM
L5          138 S L3 SSS FUL

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L6           50 S L5

     FILE 'CAOLD' ENTERED AT 17:22:01 ON 12 DEC 2002

=> s l5
L7            0 L5

=> log y
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.38     363.39

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                       0.00     -30.98

STN INTERNATIONAL LOGOFF AT 17:22:13 ON 12 DEC 2002
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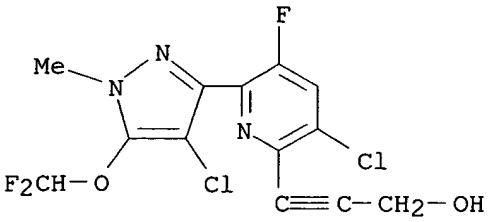
L6 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1998:341557 CAPLUS
DN 129:27898
TI Preparation of pyridylpyrazoles as **herbicides**
IN Nebel, Kurt; Brunner, Hans-Georg; Schurter, Rolf
PA Novartis A.-G., Switz.; Nebel, Kurt; Brunner, Hans-Georg; Schurter, Rolf
SO PCT Int. Appl., 181 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9821199	A2	19980522	WO 1997-EP6243	19971110
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9855514	A1	19980603	AU 1998-55514	19971110
	AU 725228	B2	20001012		
	EP 941222	A2	19990915	EP 1997-951878	19971110
	R: CH, DE, ES, FR, GB, IT, LI				
	CN 1237166	A	19991201	CN 1997-199634	19971110
	BR 9713027	A	20000125	BR 1997-13027	19971110
	JP 2001503762	T2	20010321	JP 1998-522159	19971110
	ZA 9710127	A	19980512	ZA 1997-10127	19971111
	US 6204221	B1	20010320	US 1999-297783	19990507
	KR 2000053201	A	20000825	KR 1999-704168	19990511
PRAI	CH 1996-2797	A	19961112		
	WO 1997-EP6243	W	19971110		

OS MARPAT 129:27898
AB Title compds. I (in which A = N, N:O; R = H, Cl, CH3, etc.; R1 = H, F, Cl, CHO, NO2, etc.; R2 = H, CH3, OCH3, OCH2CCH, etc.; R3 = H, CH3, alkyl, etc. R4 = OCF3, CF3, CN, SOCH3, COOH, etc.; R5 = Cl, Br, CHO, etc.) as well as agrochem. tolerated salts and stereoisomers of these compds. are prepd. through carboxylation, rearrangement, esterification, etc. The formulation examples of emulsion, wettable powders, and granules of these compds. as **herbicidal** substances were described.
IT **207994-44-3P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyridylpyrazoles as **herbicides**)
RN 207994-44-3 CAPLUS
CN 2-Propyn-1-ol, 3-[3-chloro-6-[4-chloro-5-(difluoromethoxy)-1-methyl-1H-pyrazol-3-yl]-5-fluoro-2-pyridinyl]- (9CI) (CA INDEX NAME)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Me
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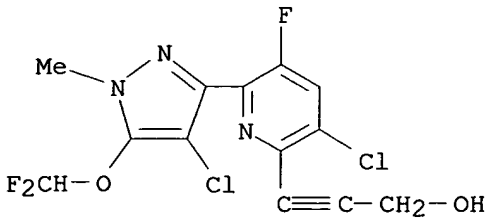
N
Cl
F2CH—O
Cl
C≡C—CH2—OH

L6 ANSWER 19 OF 50 CAPLUS COPYRIGHT 2002 ACS
AN 1998:341557 CAPLUS
DN 129:27898
TI Preparation of pyridylpyrazoles as herbicides
IN Nebel, Kurt; Brunner, Hans-Georg; Schurter, Rolf
PA Novartis A.-G., Switz.; Nebel, Kurt; Brunner, Hans-Georg; Schurter, Rolf
SO PCT Int. Appl., 181 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9821199	A2	19980522	WO 1997-EP6243	19971110
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9855514	A1	19980603	AU 1998-55514	19971110
	AU 725228	B2	20001012		
	EP 941222	A2	19990915	EP 1997-951878	19971110
	R: CH, DE, ES, FR, GB, IT, LI				
	CN 1237166	A	19991201	CN 1997-199634	19971110
	BR 9713027	A	20000125	BR 1997-13027	19971110
	JP 2001503762	T2	20010321	JP 1998-522159	19971110
	ZA 9710127	A	19980512	ZA 1997-10127	19971111
	US 6204221	B1	20010320	US 1999-297783	19990507
	KR 2000053201	A	20000825	KR 1999-704168	19990511
PRAI	CH 1996-2797	A	19961112		
	WO 1997-EP6243	W	19971110		

OS MARPAT 129:27898
AB Title compds. I (in which A = N, N:O; R = H, Cl, CH3, etc.; R1 = H, F, Cl, CHO, NO2, etc.; R2 = H, CH3, OCH3, OCH2CCH, etc.; R3 = H, CH3, alkyl, etc. R4 = OCF3, CF3, CN, SOCH3, COOH, etc.; R5 = Cl, Br, CHO, etc.) as well as agrochem. tolerated salts and stereoisomers of these compds. are prepd. through carboxylation, rearrangement, esterification, etc. The formulation examples of emulsion, wettable powders, and granules of these compds. as herbicidal substances were described.
IT **207994-44-3P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyridylpyrazoles as herbicides)
RN 207994-44-3 CAPLUS
CN 2-Propyn-1-ol, 3-[3-chloro-6-[4-chloro-5-(difluoromethoxy)-1-methyl-1H-pyrazol-3-yl]-5-fluoro-2-pyridinyl]- (9CI) (CA INDEX NAME)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Cl
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Cl
C≡C—CH2—OH

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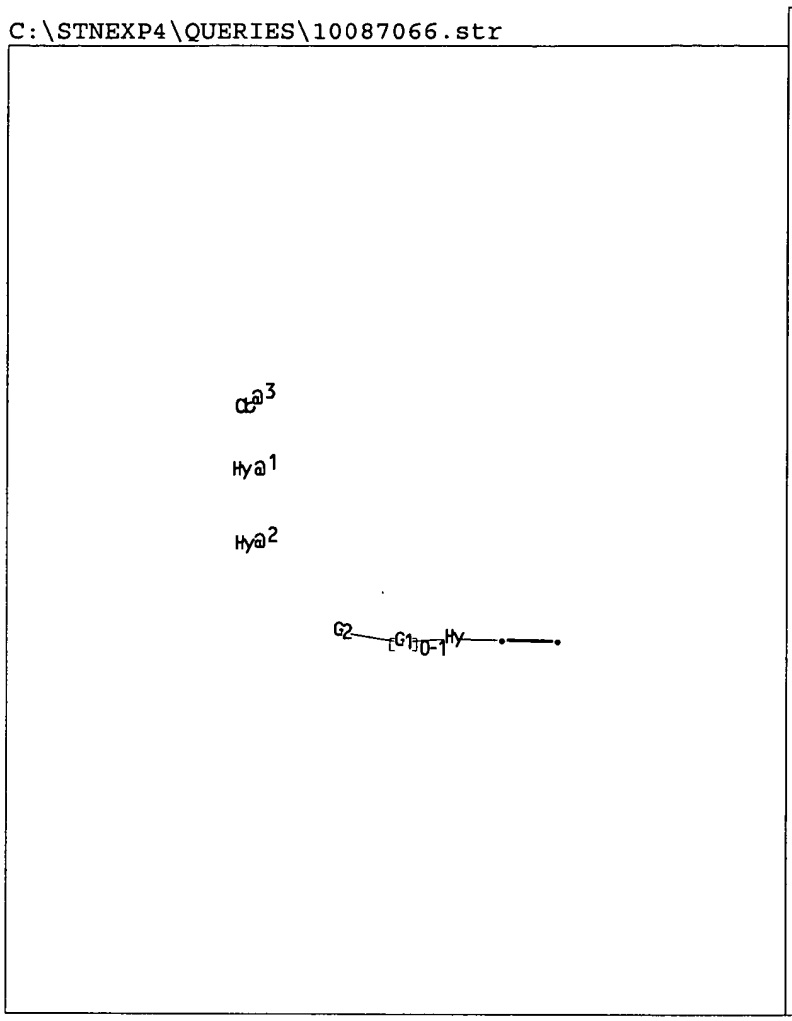

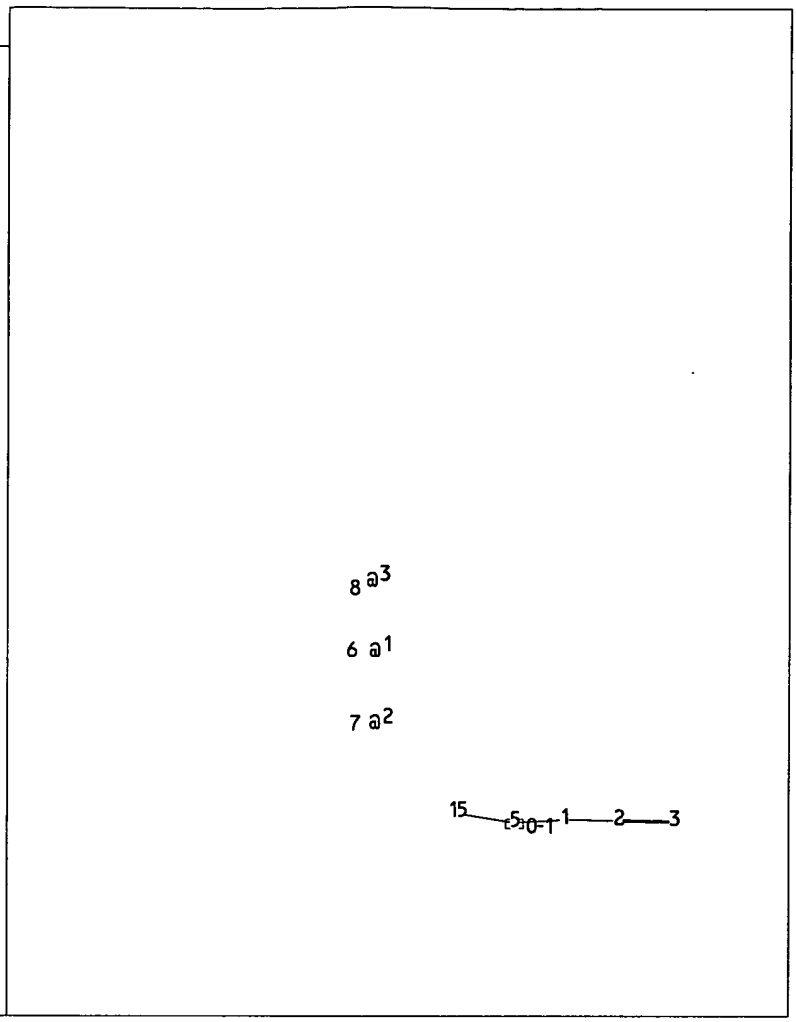

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1 2 3 5 6 7 8 15
chain bonds :
1-2 1-5 2-3 5-15
exact/norm bonds :
1-2 1-5 5-15
exact bonds :
2-3

G1:O,S

G2:[*1],[*2],[*3]

Match level :
1:Atom 2:CLASS 3:CLASS 5:CLASS 6:Atom 7:Atom 8:Atom 15:CLASS
Generic attributes :
1:
Saturation : Unsaturated
Number of Carbon Atoms : less than 7
Number of Hetero Atoms : less than 2
Type of Ring System : Monocyclic
6:
Saturation : Unsaturated
Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic
7:
Saturation : Unsaturated
Number of Carbon Atoms : less than 7
Number of Hetero Atoms : less than 2
Type of Ring System : Monocyclic
8:

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    Saturation              : Unsaturated

Element Count :
    Node 1: Limited
        C,C5
        N,N1
        O,O0
        S,S0

    Node 6: Limited
        N,N1
        C,C1-5
        S,S0
        O,O0

    Node 7: Limited
        C,C4
        S,S1
        O,O0
        N,N0
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L1 HAS NO ANSWERS
L1              STR

Cb 3



Hy 1



Hy 2
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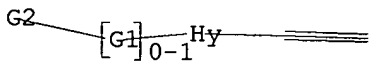


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G1 O,S
G2 [@1],[@2],[@3]


Structure attributes must be viewed using STN Express query preparation.


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SAMPLE SCREEN SEARCH COMPLETED -  16494 TO ITERATE

  6.1% PROCESSED    1000 ITERATIONS                                0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       322203 TO   337557
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 sss ful
FULL SEARCH INITIATED 17:06:06 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 332308 TO ITERATE

100.0% PROCESSED  332308 ITERATIONS                            902 ANSWERS
SEARCH TIME: 00.00.05
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=> s l3
L4          224 L3

=> s herbicid? or agric? or agronom?
          76646 HERBICID?
          54068 AGRIC?
           4401 AGRONOM?
L5        131645 HERBICID? OR AGRIC? OR AGRONOM?

=> s l4 and l5
L6           11 L4 AND L5

=> d l6 1-11 bib,ab,hitstr
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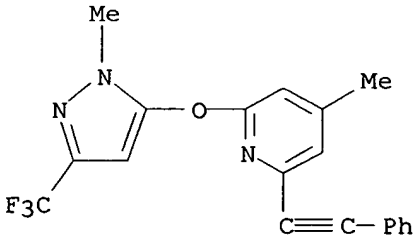
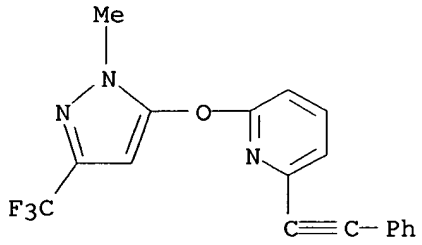
L6 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 2002:693101 CAPLUS
DN 137:212312
TI **Herbicidal** 2-alkynyl-pyri(mi)dines
IN Maier, Thomas
PA BASF Aktiengesellschaft, Germany
SO Eur. Pat. Appl., 28 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1238586	A1	20020911	EP 2002-3518	20020215
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2002322006	A2	20021108	JP 2002-59386	20020305
PRAI	US 2001-274755P	P	20010309		

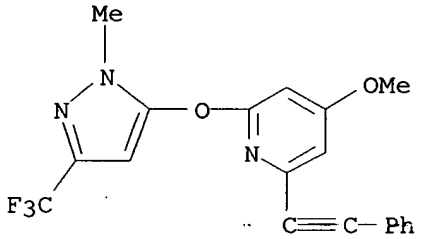
OS MARPAT 137:212312
AB A method of combating undesired plant growth at a locus comprises application to the locus of an effective amt. of at least one compd. I (R1 = (un)substituted alkyl, alkenyl, alkynyl, alkoxy,alkoxyalkyl, alkoxyalkoxy, haloalkyl, haloalkoxy, cyano, nitro, SF5, etc.; R3 = H, formyl, (un)substituted alkyl, alkenyl, trihydrocarbylsilyl, aryl, (un)substituted 5- or 6-membered nitrogen-contg. heteroarom. group;A = (un)substituted aryl, (un)substituted 5- or 6-membered nitrogen-contg. heteroarom. group, or (un)substituted thienyl; Z = O, S or single bond; X = N or CR2 (R2 = H, or R2 = R1); m = 0, 1, or 2) and the **agronomically** acceptable salts or N-oxides thereof, or **herbicidal** compns. contg. such compds. as active ingredients.
IT **457057-31-7 457057-33-9 457057-34-0 457057-35-1 457057-36-2 457057-37-3 457057-40-8**
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(**herbicide**)
RN 457057-31-7 CAPLUS
CN Pyridine, 4-methyl-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-(phenylethynyl)- (9CI) (CA INDEX NAME)



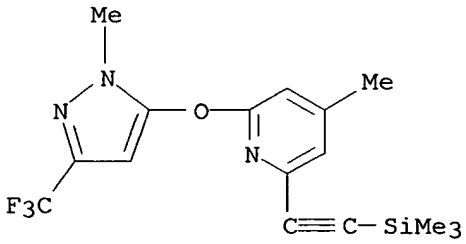
RN 457057-33-9 CAPLUS
CN Pyridine, 2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-(phenylethynyl)- (9CI) (CA INDEX NAME)



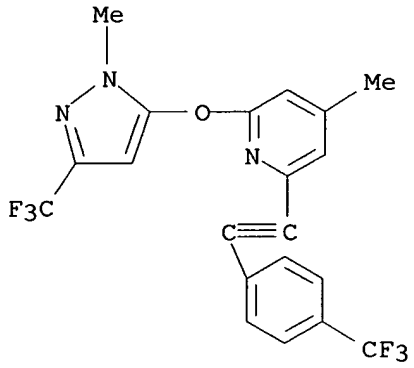
RN 457057-34-0 CAPLUS
CN Pyridine, 4-methoxy-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-(phenylethynyl)- (9CI) (CA INDEX NAME)



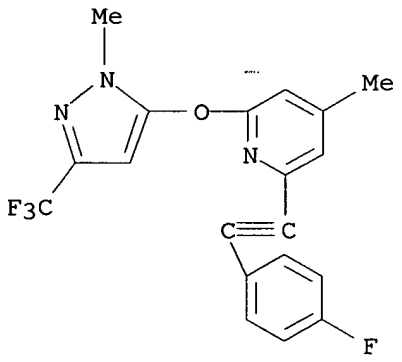
RN 457057-35-1 CAPLUS
CN Pyridine, 4-methyl-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



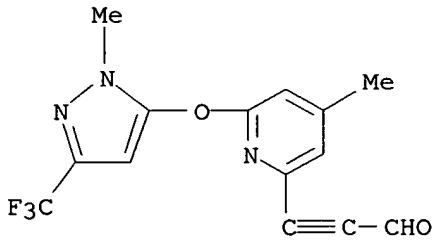
RN 457057-36-2 CAPLUS
CN Pyridine, 4-methyl-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-[[4-(trifluoromethyl)phenyl]ethynyl]- (9CI) (CA INDEX NAME)



RN 457057-37-3 CAPLUS
CN Pyridine, 2-[(4-fluorophenyl)ethynyl]-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (9CI) (CA INDEX NAME)

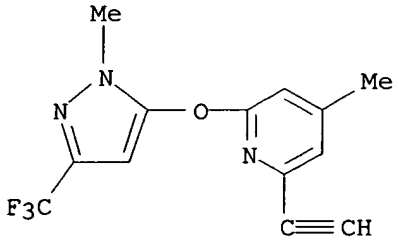


RN 457057-40-8 CAPLUS
CN 2-Propynal, 3-[4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-pyridinyl]- (9CI) (CA INDEX NAME)

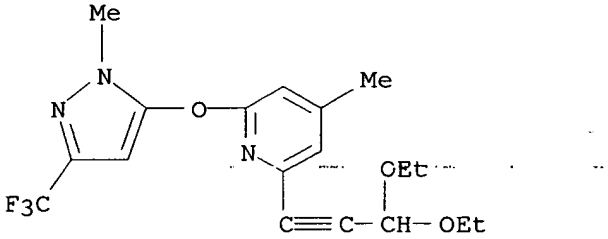


IT **457057-38-4 457057-39-5**
RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(herbicide)
RN 457057-38-4 CAPLUS
CN Pyridine, 2-ethynyl-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-

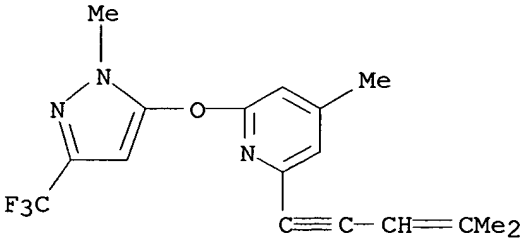
yl]oxy]- (9CI) (CA INDEX NAME)



RN 457057-39-5 CAPLUS
CN Pyridine, 2-(3,3-diethoxy-1-propynyl)-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



IT **457057-41-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. as **herbicide**)
RN 457057-41-9 CAPLUS
CN Pyridine, 4-methyl-2-(4-methyl-3-penten-1-ynyl)-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (9CI) (CA INDEX NAME)

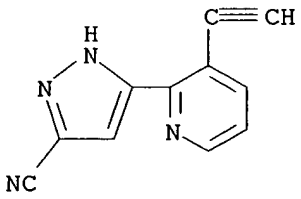


RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1998:650966 CAPLUS
DN 129:330725
TI Preparation of pyridylpyrazoles as microbicides for **agriculture** and gardening
IN Hagiwara, Kenji; Takada, Mitsumasa; Iihama, Teruyuki; Sano, Shinsuke; Shimoda, Susumu; Horikoshi, Yuji
PA Nippon Soda Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10265471	A2	19981006	JP 1997-85878	19970319

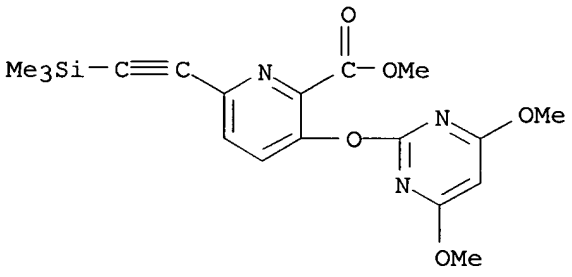
OS MARPAT 129:330725
AB Title compds. I (X = H, halo, cyano, C1-6 (halo)alkyl, etc.; R = H, metal, C1-6 alkylcarbonyl, C1-6 alkylcarbonyloxymethyl, etc.; R substitutes N in pyrazole ring; Z = halo, cyano, C1-6 (halo)alkyl, C 2-6 alkenyl, etc.; m = 1-4) or their salts are prepd. and a part of them are prepd. by reaction of pyridylpyrazoles II [A = (R1O)2CH; X1 = H, C1-6 alkyl; R1 = C1-6 alkyl; Z, m = same as I] with hydroxylamine and dehydration of II (A = HON:CH; X1, Z, m = same as above). 3-Diethoxymethyl-5-(3-chloro-2-pyridyl)pyrazole (prepn. given) was reacted with hydroxylamine hydrochloride in EtOH under reflux for 4 h to give 65% 3-hydroxyiminomethyl-5-(3-chloro-2-pyridyl)pyrazole, which was dehydrated with Ac2O at 110.degree. for 4 h to give 77% 3-cyano-5-(3-chloro-2-pyridyl)pyrazole. The compd. showed good microbicidal activity on crops.
IT **215234-47-2P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyridylpyrazoles by imination of alkoxymethylpyridylpyrazoles and dehydration)
RN 215234-47-2 CAPLUS
CN 1H-Pyrazole-3-carbonitrile, 5-(3-ethynyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



L6 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1995:380295 CAPLUS
DN 122:160668
TI Preparation of picolinic acid derivatives as **herbicides**
IN Takabe, Fumiaki; Saito, Yoshihiro; Tamaru, Masatoshi; Tachikawa, Shigehiko; Yoshida, Ryo
PA Kumiai Chemical Industry Co, Japan; Ihara Chemical Ind Co
SO Jpn. Kokai Tokkyo Koho, 34 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06316574	A2	19941115	JP 1991-302644	19911023
JP 2779720	B2	19980723		

OS CASREACT 122:160668; MARPAT 122:160668
AB Title compds. I [R1 = H, alkyl, alkenyl, alkynyl, benzyl, haloalkyl, cyanoalkyl, etc.; R2 = H, alkyl, alkoxy, halo, haloalkoxy, alkylsulfonyl, R ; X = (un)substituted amino, etc.; Y = O, S, (un)substituted imino; n = 0, 1] are prepd. Thus, Me 6-(dimethylamino)-3-hydroxypicolinate was treated with 4,6-dimethoxy-2-(methylsulfonyl)pyrimidine in DMF contg. K2CO3 was heated at 90.degree. for 2 h to give 66% the title compd. I [X = 6-dimethylamino, Y = O, R = Me, R1 = R2 = MeO, n = 0]. This at 100 g/10 are effected 100% kill against Cyperus difformis.
IT **143941-12-2P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of picolinic acid derivs. as **herbicides**)
RN 143941-12-2 CAPLUS
CN 2-Pyridinecarboxylic acid, 3-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-6-[(trimethylsilyl)ethynyl]-, methyl ester (9CI) (CA INDEX NAME)

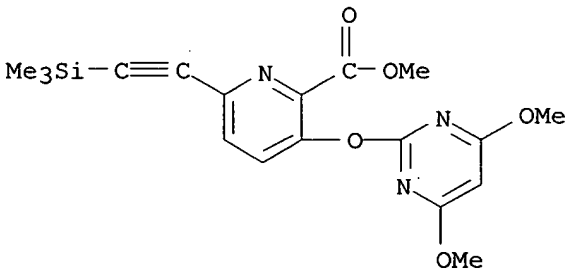


Same as #6

L6 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1994:8609 CAPLUS
DN 120:8609
TI Preparation of (pyrimidinyloxy)picolinic acid analogs as **herbicides**
IN Takabe, Fumiaki; Saito, Yoshihiro; Tamaru, Masatoshi; Tachikawa, Shigehiko; Hanai, Ryo
PA Kumiai Chemical Industry Co., Ltd., Japan; Ihara Chemical Industry Co., Ltd.
SO PCT Int. Appl., 49 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9312109	A1	19930624	WO 1991-JP1725	19911218
	W: BR, HU, PL, RO, SU				
	HU 64321	A2	19931228	HU 1992-1294	19911218
	HU 213623	B	19970828		
	BR 9106704	A	19940322	BR 1991-6704	19911218
	RO 109848	B1	19950630	RO 1927-92205	19911218
	RO 109848	B1	19950630	RO 1992-527	19911218
	PL 169374	B1	19960731	PL 1991-295868	19911218
	RU 2091380	C1	19970927	RU 1991-5011967	19911218
PRAI	WO 1991-JP1725	A	19911218		

OS MARPAT 120:8609
AB Title compds. I [R = H, alkyl, alkenyl, benzyl, haloalkyl, etc.; R1, R2 = alkyl, alkoxy, halo, haloalkoxy, alkylsulfonyl; X = (un)substituted amino, phenoxy, haloalkyl, alkoxy, etc.; Y = O, S, (un)substituted amino; n = 0, 1] are prepd. E.g., a mixt. of Me 6-(dimethylamino)-3-hydroxypicolinate (prepn. given), 4,6-dimethoxy-2-methylsulfonylpyrimidine, and K2CO3 in DMF was heated at 90.degree. for 2 h to give 66% I [R = Me, R1 = R2 = MeO, X = 6-Me2N, Y = O, n = 0], which at 100 g/ha effect .gtoreq.95% kill against Monochoria vaginalis. Many formulations contg. I are described.
IT **143941-12-2P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as **herbicide**)
RN 143941-12-2 CAPLUS
CN 2-Pyridinecarboxylic acid, 3-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-6-[(trimethylsilyl)ethynyl]-, methyl ester (9CI) (CA INDEX NAME)



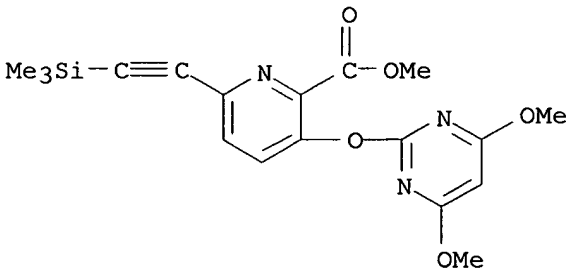
Same as #6.

L6 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1993:6984 CAPLUS
DN 118:6984
TI Preparation of (pyrimidinyloxy- and -thio)picolinic acid derivatives as **herbicides**
IN Takabe, Fumiaki; Saito, Yoshihiro; Tamaru, Masatoshi; Tachikawa, Shigehiko; Hanai, Ryo
PA Kumiai Chemical Industry Co., Ltd., Japan; Ihara Chemical Industry Co., Ltd.
SO PCT Int. Appl., 47 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9207846	A1	19920514	WO 1991-JP1459	19911025
	W: AU, CA, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	CA 2066641	AA	19920426	CA 1991-2066641	19911025
	AU 9187473	A1	19920526	AU 1991-87473	19911025
	AU 640283	B2	19930819		
	EP 507962	A1	19921014	EP 1991-918910	19911025
	EP 507962	B1	20010613		
	R: DE, FR, GB				
PRAI	JP 1990-288180	A	19901025		
	WO 1991-JP1459	A	19911025		

OS MARPAT 118:6984
AB The title compds. [I; R = H, alkyl, etc.; R1, R2 = alkyl, alkoxy, etc.; Y = O, S, etc.; X = cyano, PhO, etc.; n = 0, 1] are prepd. A mixt. of picolinate II, sulfone III, and K2CO3 in DMF was heated 2 h at 90.degree. to give 66% I (R = Me, R1 = R2 = MeO, X = 6-Me2N, Y = O, n = 0), which killed >90% barnyard grass, Monochoria vaginalis, and Scirpus juncoides.
IT **143941-12-2P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as **herbicide**)
RN 143941-12-2 CAPLUS
CN 2-Pyridinecarboxylic acid, 3-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-6-[(trimethylsilyl)ethynyl]-, methyl ester (9CI) (CA INDEX NAME)

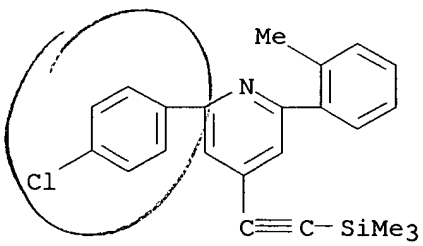
Same as #6



L6 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1992:128680 CAPLUS
DN 116:128680
TI Preparation of 2,6-diarylpyridine derivatives as **herbicides**
IN Yanagi, Akihiko; Heinemann, Ulrich; Babczinski, Peter; Luerssen, Klaus; Santel, Hans Joachim; Schmidt, Robert R.
PA Bayer A.-G., Germany
SO Eur. Pat. Appl., 50 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

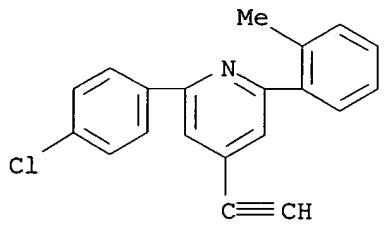
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 463492	A1	19920102	EP 1991-109714	19910613
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
DE 4020257	A1	19920102	DE 1990-4020257	19900626
JP 04230259	A2	19920819	JP 1991-174682	19910620
PRAI DE 1990-4020257		19900626		

OS MARPAT 116:128680
AB Diarylpyridines I [R1, R2 = H, halo, alkyl, alkoxy, haloalkyl; R3 = H, halo, cyano, alkyl, alkoxy, haloalkyl; R4, R5 = H, alkyl; Z = alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkylthio, halo, substituted amino, etc.; several specific exclusions] were prepd. as **herbicides**, desiccants, and defoliants (no data). Thus, 3-EtC6H4Ac was condensed with PhCOCH:C(SMe)2 (prepn. given) in THF contg. KOCMe3; the product was cyclized in situ by refluxing with NH4Ac and added AcOH to give I (R1 = 3-Et, Z = SMe, other R = H). Over 100 I are listed with characterizing data.
IT **139421-28-6P 139421-29-7P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as **herbicide**)
RN 139421-28-6 CAPLUS
CN Pyridine, 2-(4-chlorophenyl)-6-(2-methylphenyl)-4-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



The claimed compds can not have 2-aryl groups on the pyridine.

RN 139421-29-7 CAPLUS
CN Pyridine, 2-(4-chlorophenyl)-4-ethynyl-6-(2-methylphenyl)- (9CI) (CA INDEX NAME)


Me
N
Cl
C≡CH

L6 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1990:35858 CAPLUS
DN 112:35858
TI Preparation of 2-(2-imidazolin-2-yl)nicotinates as **herbicides**
IN Doehner, Robert Francis; Ladner, David William; Finn, John Michael
PA American Cyanamid Co., USA
SO Eur. Pat. Appl., 48 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 2

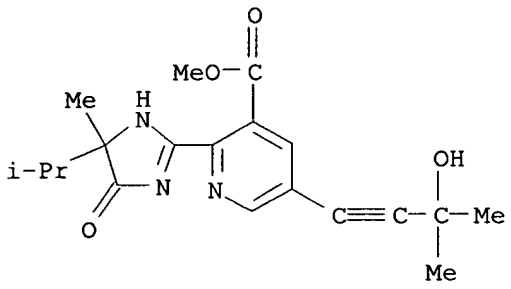
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 322616	A2	19890705	EP 1988-120594	19881209
	EP 322616	A3	19891018		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	IL 104751	A1	19940530	IL 1988-104751	19881212
	IL 104752	A1	19940530	IL 1988-104752	19881212
	JP 02000779	A2	19900105	JP 1988-329496	19881228
	BR 8806959	A	19890829	BR 1988-6959	19881229
	ZA 8809728	A	19891025	ZA 1988-9728	19881229
	CA 1337423	A1	19951024	CA 1988-587213	19881229
	DK 8807331	A	19890701	DK 1988-7331	19881230
	AU 8827583	A1	19890706	AU 1988-27583	19881230
	AU 612750	B2	19910718		
	HU 49457	A2	19891030	HU 1988-6681	19881230
	HU 205832	B	19920728		
	KR 9705304	B1	19970415	KR 1988-18228	19881230
	AU 9177208	A1	19910808	AU 1991-77208	19910521
	US 5334576	A	19940802	US 1992-855259	19920323
	DK 9301041	A	19930917	DK 1993-1041	19930917
	DK 9301042	A	19930917	DK 1993-1042	19930917
PRAI	US 1987-139996	A	19871231		
	US 1986-889999	B2	19860728		
	IL 1988-88663	A3	19881212		
	US 1989-397699	B1	19890823		

AB The title compds. [I and II; R1 = C1-4 alkyl; R2 = C1-4 alkyl, C3-6 cycloalkyl; R1R2 = atoms to complete a (Me-substituted) C3-6 cycloalkyl ring; R3 = H, (substituted) C1-2 alkyl, C3-12 alkenyl, C3-6 cycloalkyl, C3-16 alkynyl, cation; R4 = C1-11 alkyl, ClCH2, (substituted) Ph; R5 = C1-4 alkyl, (Me-substituted) Ph; A = CO2R3, CHO, CH2OH, COMe, COPh, CN, Me, CH:NOH, CONHOH, 2-oxazolidinyl, etc.; B = H, COR4, SO2R5; W = O, S; Y, Z = H, Me, (hydroxy-substituted) C2-6 alkynyl, (substituted) C3-6 cycloalkyl, C1-4 alkyl, alkenyloxy, etc.] useful as **herbicides**, were prepd. Thus, Me 5-bromo-2-imidazolin-2-yl) nicotinate, HC.tplbond.CC(OH)Me2, (Ph3P)2PdCl2, Ph3P, and CuCl were refluxed 72 h in Et3N to give alkynylpyridylimidazolone III. Several I at 0.5 kg/ha preemergent gave complete control of quackgrass, barnyardgrass, foxtail, velvetleaf, etc.

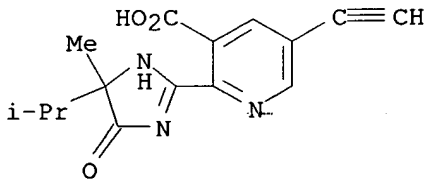
IT **124523-14-4P 124523-15-5P 124523-64-4P**
124523-65-5P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as **herbicide**)

RN 124523-14-4 CAPLUS
CN 3-Pyridinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-(3-hydroxy-3-methyl-1-butynyl)-, methyl ester (9CI)

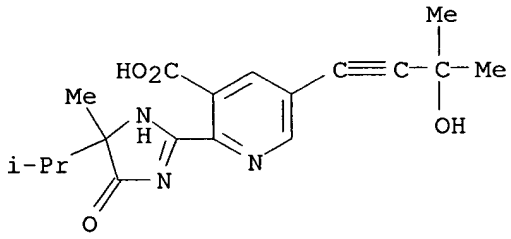
(CA INDEX NAME)



RN 124523-15-5 CAPLUS
CN 3-Pyridinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethynyl- (9CI) (CA INDEX NAME)



RN 124523-64-4 CAPLUS
CN 3-Pyridinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-(3-hydroxy-3-methyl-1-butynyl)- (9CI) (CA INDEX NAME)



RN 124523-65-5 CAPLUS
CN 3-Pyridinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-(1-propynyl)- (9CI) (CA INDEX NAME)